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## What is claimed is:

1. An apparatus for enhancing image resolution by a position perfurbation modulation, comprising:

an optical lens assembly;

a wedge lens turntable embedded with a plurality of wedge lenses for projecting images passing through the optical lens assembly;

a step motor for rotating the wedge lens turntable; and

an image detector for capturing the projected image passing through the wedge lens turntable.

- 2. The apparatus of Claim 1, wherein the wedge lenses shift images upward, leftward, downward and rightward.
- 3. The apparatus of Claim 1, wherein the wedge lenses and a through hole are placed along the circumference of the wedge lens turntable.
- 4. The apparatus of Claim 1, wherein the wedge lens turntable has a hollow region for receiving a shaft whose one end is controlled by the step motor.
- 5. The apparatus of Claim 1, wherein the image detector is a capacitance-coupling device.
- 6. A method for enhancing image resolution by a position perfurbation modulation, comprising the following steps:
- (a) utilizing an image detector to capture projected images passing through wedge lenses which shift images upward, downward, rightward and leftward and a through hole;
  - (b) computing pixel numbers captured by the image detector via

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the through hole and the wedge lenses, and subtracting the pixel number obtained from the through hole from the pixel numbers obtained from the wedge lenses respectively; and

(c) determining a position of a questionable pixel according to the above computation and a predefined table.